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*Geology and Coal Resources of North Park, Colorado.* By A. L. BEEKLY. U.S. Geol. Survey, Bull. 596, 1915. Pp. 118, pls. 12.

North Park is described as a synclinal basin limited on the east and west by anticlinal mountain ranges, on the south by a high ridge composed of Tertiary extrusives, and on the north by an area of pre-Cambrian crystalline rocks faulted up into contact with the Paleozoic and later sediments of the Park. The latter comprise two sharply distinct groups: the lower, which rests upon pre-Cambrian crystallines, begins with a few feet of limestone of doubtful age, at the base of the Red Beds, and ends with the Pierre shale—7,400 feet of beds in all, apparently conformable throughout; the upper group comprises some 5,000 feet of uppermost Cretaceous or Eocene strata included in the Coalmont formation. The folding of the region took place in part prior to the deposition of the Coalmont and in part later. Moderately extensive faulting accompanied or followed the later folding, and therefore affected the Coalmont in common with the older rocks. Lying upon the Coalmont in uncertain relationship is the North Park formation, a 600-foot series of clastic sediments interbedded with sheets of pyroclastic volcanics. The Tertiary igneous rocks near the southern border of North Park occur in both intrusive and extrusive relations. Andesine basalt and volcanic agglomerate are the chief types. Granite is the chief constituent of the pre-Cambrian complex exposed in the mountains east, west, and north of the Park.

Coal occurring in the lower part of the Coalmont formation is the one mineral resource of this area which is now being exploited. More than two billion tons of sub-bituminous coal are estimated as the available reserve. The coal seams are of unusual thickness, one bed reaching a thickness of more than 50 feet, and maintaining an average thickness of 30 feet along a 15-mile outcrop.

C. W. T.

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*Common Minerals and Rocks: Their Occurrence and Uses.* By R. D. GEORGE. Bull. Colo. State Geol. Survey No. 6, 1913. Pp. 406, pls. 5.

The main purpose of this bulletin is to describe the commoner minerals and rocks, and furnish the means of recognizing them and knowing their uses.

V. O. T.